

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/22346

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 14/705, 19/00; C12N 15/62; G01N 33/53

US CL : 435/7.21, 69.7; 530/350; 536/23.4

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.21, 69.7; 530/350; 536/23.4

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST, STN/MEDLINE

search terms; chimera?, receptor#, coupled, edg#

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	LIU et al. Ligand-induced Trafficking of the Sphingosine-1-phosphate Receptor EDG-1. Molecular Biology of the Cell. April 1999, Vol. 10, pages 1179-1190, see abstract.	1-21
Y	AN et al. Signaling Mechanisms and Molecular Characteristics of G Protein-Coupled Receptors for Lysophosphatidic Acid and Sphingosine 1-Phosphate. Journal of Cellular Biochemistry Supplements. 1998, Vol. 30/31, pages 147-157, see entire document.	1-21
Y	MEYER-KIRCHRATH et al. Preservation of Gi Coupling of a Chimeric EP3/I-Type Prostaglandin (IP) Receptor. Biochemical Pharmacology. 1999, Vol. 58, pages 471-476, see especially the abstract and Figure 1.	1-21



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"A" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

11 SEPTEMBER 2002

Date of mailing of the international search report

21 OCT 2002

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KOBILKA et al. Chimeric alpha2-, beta2-Adrenergic Receptors: Delineation of Domains Involved in Effector Coupling and Ligand Binding Specificity. Science. 03 June 1988, Vol. 240, pages 1310-1316, see entire document.	1-21
Y	HAMMERLAND et al. Domains Determining Ligand Specificity for Ca <sup>2+</sup> Receptors. Molecular Pharmacology. 1999, Vol. 55, pages 642-648, see entire document.	1-21